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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/826,833	04/06/2001	Yushi Inoue	900-379	5089	
75	590 09/12/2002				
NIXON & VANDERHYE P.C. 8th Floor 1100 North Glebe Rd.			EXAMINER		
			ESTRADA, MICHELLE		
Arlington, VA 22201-4714			ART UNIT	PAPER NUMBER	
			2823	2823	
			DATE MAILED: 09/12/2002	DATE MAILED: 09/12/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Applicatin No.  Og/826,833  INOUE, YUSHI  Examiner  Art Unit  2823  — The MAILING DATE of this communicati in appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  — Eventions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (s) (MONTHS from the mailing date of this communication.  — If the period for reply is periodical above, the maximum statutory period will apply and well expire SIX (n) MONTHS from the mailing date of this communication.  — Failure to reply within the set or extended period for reply with the statutory minimum of thirty (30) days will be considered timely.  — Any reply received by the Office alter than three mentins after the mailing date of this communication, even if timely filed, may reduce any examed pelant term adjustment. See 37 CFR 1.794(b).  Status  1) □ Responsive to communication(s) filed on 11 July 2002.  2a) □ This action is FINAL.  2b) □ This action is final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disp sition of Claims  4) □ Claim(s) 1-6 and 8-11 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  Application may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.				sds./			
Examiner   Michelle   Estrada   2823    - The MAILING DATE of this communicati in appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of term may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed sher SIX (b) MONTHS from the mailing date of this communication.  If the period for reply specified advances to a maximum statutory period will apply and will expire SIX (b) MONTHS from the mailing date of this communication.  If the period for reply with the statutory minimum of thirty (30) days will be considered timely.  If the period for reply with the statutory period will apply and will expire SIX (b) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply within the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the set or extended period for reply within the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the set or extended period for reply within the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the set or extended period for reply within the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the set or extended period or reply within the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the set of this communication to the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the set of this communication to be statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the statutory minimum of thirty (30) days will be considered timely.  Failure to reply within the statutory minimum of	<del></del>		Applicati n No.	Applicant(s)			
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12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120	Priority (	under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:	a)	☐ All b)☐ Some * c)☐ None of:					
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>		1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority documents have been received in Application No		2. Certified copies of the priority docume	ents have been received in Appl	lication No			
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).	14) 🗌 /	Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. § 1	l 19(e) (to a provisional application).			
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>							
Attachment(s)			, .				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152) 6) Other:	2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 is confusing because it is reciting that both the additional etching stop film and the etching stop film under the first organic insulating layer comprise an oxide which is contradictory to independent claim 10, which recites that both of these layers comprise different materials to improve efficiency of producing the semiconductor device. It appears that in line 3, "oxide" should be replaced with --nitride---.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>e) the invention was described in-

<sup>(1)</sup> an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

<sup>(2)</sup> a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

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Claims 1-6 and 8-11 are rejected under 35 U.S.C. 102(e) as being anticipated by the Zhao et al. (6,100,184).

Zhao et al. disclose forming an opening (25/24) by etching process using a resist pattern (22) as a mask in a multi-layered film including a nitride etching stop film (13); having a first fluorinated polyimide organic insulating film (14), a first oxide etching stop film (15) and a second fluorinated polyimide organic insulating film (18) being layered in this order such that the opening penetrates from the second organic insulating film to the first organic insulating film, wherein a second oxide etching stop film (19) is formed between the resist pattern and the second organic insulating film to protect the second organic insulating film from being etched during the formation of the opening (Col. 7, lines 1-5); wherein the first organic insulating film has a dielectric constant of about 3 or lower (Col. 6, lines 15-18); wherein the second etching stop film is made from the same material as the first etching stop film (Col. 6, lines 65-66); wherein the first etching stop film is a film that functions as an etching stopper to the first organic insulating film and has an insulating function; wherein the first etching stop film has a selectivity ratio with respect to the second organic insulating film of 5 or higher; wherein the second etching stop film is formed of such a material in such a film thickness that the second organic insulating film is protected from being etched when an opening is formed through the second organic insulating film to the first organic insulating film; wherein another etching stop film (13) which is functioned as a diffusion barrier for metallic elements or impurities is provided under the multi-layered film (Col. 5, lines 62-67); wherein the additional etching stop film (19) is of a different material than the etching stop film under Application/Control Number: 09/826,833

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the first organic insulating film so as to improve efficiency of producing the semiconductor device (Col. 6, lines 61-67).

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Estrada whose telephone number is (703) 308-0729. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 703-308-4918. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

MEstrada

September 9, 2002

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TECHNOLOGY CENTER 2000